

USE OF (PER)FLUOROPOLYETHER DERIVATIVES IN THE TREATMENT OF
SUBSTRATA HAVING A LOW SURFACE ENERGY

ABSTRACT

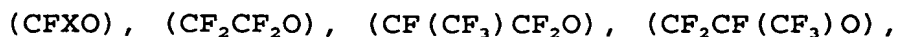
Use for improving the hydro- and oil-repellence properties of substrata having a low surface energy of (per)fluoropolyether mono- and bifunctional derivatives having the structures:



wherein:

L is a linking organic group $-CO-NR'-(CH_2)_q-$, with $R'=H$ or C_1-C_4 alkyl; q is comprised between 1 and 8; $Y=F$; CF_3 ; W is a $-Si(R_1)_\alpha(OR_2)_{3-\alpha}$ group with $\alpha=0,1,2$, R_1 and R_2 equal to or different from each other are C_1-C_6 alkyl groups, C_6-C_{10} aryl groups, C_7-C_{12} alkyl-aryls or aryl-alkyls;

R_f has a number average molecular weight in the range 200-5,000 and comprises repeating units having at least one of the following structures:



wherein $X = F, CF_3$.